HEAVY EQUIPMENT

Objective:

This session provides the student with introductory knowledge about the various types of heavy equipment used in construction and the opportunity to experience operation of one such piece of equipment. (8 hours)

- I. Introduction of subject and instructor
- II. Types and uses of heavy equipment
 - A. Frequently used equipment
 - B. Specialized equipment
- III. Heavy equipment maintenance by operator
- IV. Heavy equipment safety
- V. Training and licensing requirements
- VI. Instructor loader backhoe demonstration
- VII. Loader-backhoe operation by student with instructor guidance
- VIII. Review
 - A. Questions and Answers
 - B. Written Test

Heavy Equipment

A. Course Description:

This course consists of four levels:

- Level 1--will cover operator safety and personnel protective gear.
- Level 2 -- will cover types of Heavy Equipment
- Level 3 -- will cover safe equipment operation and fueling.
- Level 4 -- will be the pros and cons of being an equipment operator.
- **B.** Objectives: Upon the completion of this course the Cadet will have an understanding of heavy equipment and it's uses and will able to identify the different types.

C. Levels of Learning:

- **a. Knowledge:** Student will have know the various types and procedures of basic heavy equipment.
- **b. Skill:** Student will have an understanding of how to develop equipment skills in accordance with the Associated Builders Contractors NCCER to become an accomplished Heavy Equipment Operator.
- c. Attitude: Student must have a can-do attitude to safely operate equipment. A willingness to follow directions and have a good work ethic is necessary.

Heavy Equipment

Time Schedule	Course Sequence	Reminders	
50 Minutes	IntroductionWhy are we here?Overview/AgendaObjectives	 Hand out name- tags & pencils. Pass around sign in sheet. 	
Break - 10 minutes			
60 Minutes	 Show video: Intro to Heavy Equipment Discuss heavy equipment: Uses & capabilities 		
Break - 15 Minutes			
50 Minutes	Take students outside for "hands on" training.	 Ensure students have proper safety gear: boots, glasses, hearing protection, hard hats. 	
Break - 5 minutes			
20 Minutes	 Show video: It Always Happens to the Other Guy". Discuss safety Effects of alcohol & drugs Do's & Don'ts Attitude 	·	
Break - 10 minutes			
20 Minutes	Pro's & Con'sPay & Benefits		
20 Minutes	ConclusionAnswer questionsReviewEvaluations	Distribute my business card	

Heavy Equipment Operator Quiz

Name	Date		
Circle the o	correct answers		
1.	Which of the following functions is not performed by a bulldozer?		
	a. Spreading		
	b. Ripping		
	c. Grubbing		
	d. Trenching		
2.	The average weight of one cubic yard of dirt is pounds?		
	a. 270		
	b. 1200		
	c. 2700		
	d. 170		
3.	What type of accident is the top cause of death on construction jobs?		
	a. Falls		
	b. Chemicals		
	c. Heavy equipment accidents		
	d. Hand tools		
4.	The digging depth at which trenching becomes a particular concern by OSHA standards isfeet?		
	a. 5		
	b. 10		
	c. 6		
	d. 15		
5.	What is an advantage of being an equipment operator?		
	a. Always the same		
	b. Extreme weather		
	c. Low pay		
	d. Continual change of scenery from one job to another		

Heavy Equipment Operator Quiz (Answer sheet)

Name	Date		
Circle the c	correct answers		
1.	Which of the following functions is not performed by a bulldozer?		
	a. Spreading		
	b. Ripping		
	c. Grubbing		
	d. Trenching		
2.	The average weight of one cubic yard of dirt is pounds?		
	a. 270		
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4.	The digging depth at which trenching becomes a particular concern by OSHA standards isfeet?		
	a. 5		
	b. 10		
	c. 6		
	d. 15		
5.	What is an advantage of being an equipment operator?		
	a. Always the same		
	b. Extreme weather		
	c. Low pay		
	d Continual change of scenery from one job to another		

Storm Water Management Quiz

Please answer the following questions based on the information presented in today's course:

1.	Name	Name two of the four components of a Storm Water System:		
	a.			
	b			
2.	Name three of the six factors which impact the designing of a stor water system:			
	a.			
	b.			
	c			
3.	In you	r own words, explain a storm water drainage basin:		
4.	Name o	one of the three factors which impact water quality:		